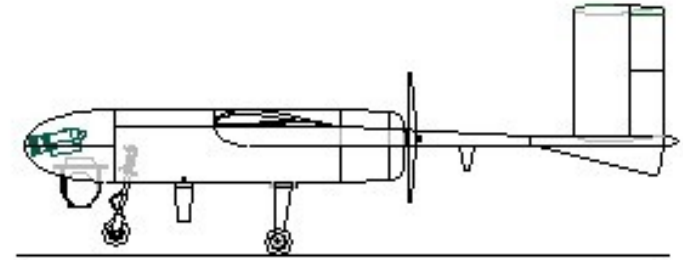
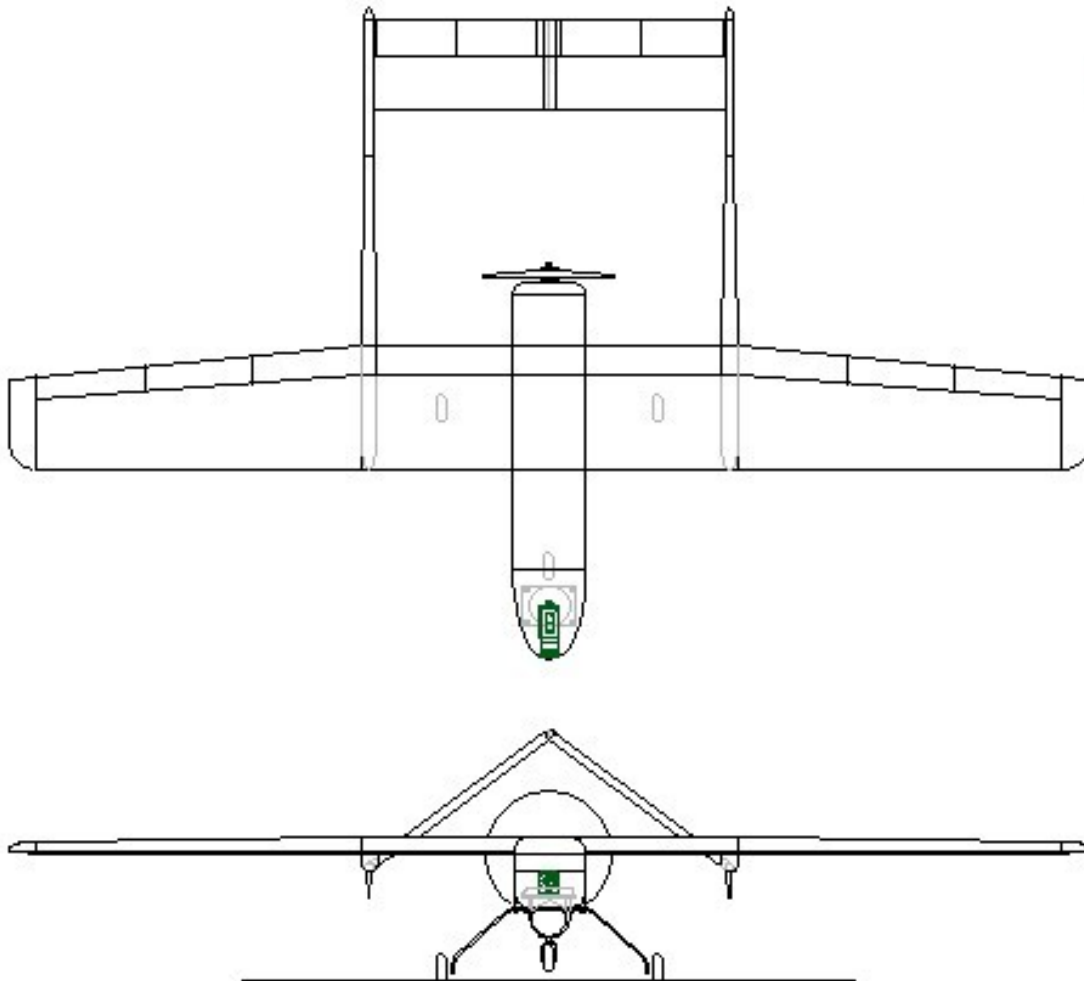




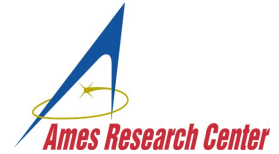
# SIERRA Unmanned Aircraft System



Wing Span	20 ft.
Length	11.8 ft.
Height	4.6 ft.
Empty Weight	215 lbs.
Gross Weight	350 lbs.
Payload	50 lbs.
Max Speed	80 kts.
Cruise Speed	55 kts.
Range	600 nm
Endurance	11 hrs



# SIERRA System Description



- Aircraft Systems
  - Airframe construction primarily from composite materials.
  - Engine, Herbrandson Dyad 290B belt drive.
  - Bladder tank with 11 gal 100 LL gasoline/oil mix.
  - 28 V electrical system with lead acid aircraft battery
  - (10) CK Design Technologies Linear Actuators for control surfaces, brakes and steering; Futaba servo for throttle control.
  - Payloads operate from aircraft power and Lithium Polymer batteries.
- Command and Control
  - Spektrum 2.4 GHz Tx module and Rx for JR 10X handset (RC control).
  - Cloud Cap Piccolo II autopilot with Futaba manual controller.
  - Ground Control Station with moving map display and drag-and-drop waypoint selection.
  - 900 MHz link for short range control.
  - Iridium SATCOM link for over-the-horizon control.